

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v17

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[7x + 6] - 4}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 2 \cdot f[5(x + 6)] + 3$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x}{2} + 4\right]}{8} + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

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Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 4 \cdot (f[6x - 2] + 5)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 3 \cdot f[6(x - 9)] - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x+7}{6}\right] + 8}{4}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.